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ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. **FILING DATE** FIRST NAMED INVENTOR 10/651,620 08/29/2003 Tim B. Cameron 03132 8777 **EXAMINER** 23338 7590 01/10/2006 DENNISON, SCHULTZ, DOUGHERTY & MACDONALD LITHGOW, THOMAS M 1727 KING STREET **PAPER NUMBER ART UNIT** SUITE 105 ALEXANDRIA, VA 22314 1724

DATE MAILED: 01/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summary	10/651,620	CAMERON ET A	NL.
	Examiner	Art Unit	
	Thomas M. Lithgow	1724	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet wit	h the correspondence a	ddress
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re will apply and will expire SIX (6) MONT , cause the application to become ABA	ATION. ply be timely filed THS from the mailing date of this ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.	•	ne merits is
Disposition of Claims			
 4) Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) none is/are withdraws 5) Claim(s) is/are allowed. 6) Claim(s) 1-8 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 			
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to be drawing(s) be held in abeyand ion is required if the drawing(s)	ce. See 37 CFR 1.85(a). s) is objected to. See 37 C	` '
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Aprity documents have been in (PCT Rule 17.2(a)).	plication No eceived in this Nationa	ıl Stage
		IM fithe	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 04 Aug 2004	4) Interview Su Paper No(s)	OMAS M. LITHGOW RIMARY EXAMINER GROUP 17:00 Jummary (PTO-413) Jummary (PTO-413) Jummary (PTO-413) Jummary (PTO-413) Jummary (PTO-413)	ГО-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-4 and 6-8 are rejected under 35 U.S.C. 102(b) as being anticipated by AU 708335. AU '335 discloses a process for the flotation separation of silicates from non-sulfidic minerals including phosphate [pg.
- 1, line 12 "apatite"] by employing various quaternary ammonium compounds including a preferred embodiment noted at pg. 5, lines 3-9.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over AU 708335 as applied to claim 1 above, and further in view of Uphues (US 5296622)- cited by applicant. Claim 5 is noted to include a process step of deriving the quaternary esteramine from methyldiethanolamine. Uphues '622 indicates that the use of triethanolamine (as taught by AU 708335) or methyldiethanolamine are known equivalents in the production of quaternary esteramines (col. 3, lines 60-65). As such it would have been obvious for one of ordinary skill to derive the recited esteramines from methyldiethanolamine as recited in claim 5.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas M. Lithgow whose telephone number is 571-272-1162. The examiner can normally be reached on Mon. -Fri..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thomas M. Lithgow Primary Examiner Art Unit 1724

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